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APPLICATION NO.	FILING DAT	E FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/482,156	01/12/200	Jonathan Trostle	50325-080	6624		
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1600 WILLO SAN JOSE,	OW STREET CA 95125		SHERR, C	SHERR, CRISTINA O		
			ART UNIT	PAPER NUMBER		
			3621			
			DATE MAIL ED: 11/08/200	า		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	2				
	09/482,156	TROSTLE ET AL.	7				
. Office Action Summary	Examiner	Art Unit					
	Cristina O Sherr	3621					
The MAILING DATE of this communication app Period for Reply	ears on the cover shee	et with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, m y within the statutory minimum o vill apply and will expire SIX (6) , cause the application to becor	ay a reply be timely filed If thirty (30) days will be considered timely. MONTHS from the mailing date of this communication The ABANDONED (35 U.S.C. § 133).	on.				
Status 1) Page page to communication (s) filed on 22 (August 2002						
1) Responsive to communication(s) filed on 22 A	is action is non-final.						
, <u> </u>		matters prosecution as to the merits	ie				
3) Since this application is in condition for allowated closed in accordance with the practice under Disposition of Claims			15				
4)⊠ Claim(s) <u>1 - 30</u> is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdraw	wn from consideration						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement						
Application Papers							
9)☐ The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ accept							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on		disapproved by the Examiner.					
If approved, corrected drawings are required in re			,				
12) ☐ The oath or declaration is objected to by the Ex	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S	.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority document	s have been received						
Certified copies of the priority document							
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).					
14) ☐ Acknowledgment is made of a claim for domesti	•		tion).				
a) The translation of the foreign language pro			•				
15) Acknowledgment is made of a claim for domest							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notic	view Summary (PTO-413) Paper No(s)ee of Informal Patent Application (PTO-152) r.	. •				

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DETAILED ACTION

1. Claims 1 – 6, 8, 10, 17, 19-20, 23-24, and 26-29 have been amended in this action. Claims 1 – 30 remain pending.

Response to Arguments

- 2. Applicant's arguments filed 22 August 2002 have been fully considered but are not persuasive.
- Applicant argues that Dondeti has no teaching of an event server as claimed.
 Examiner respectfully directs Applicant's attention to Col. 3 on 19-35.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1- 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dondeti et al (US 6,240,188B1) in view of O'Toole, jr. et al (US 6,279,112 B1).
- 6. Dondeti discloses a method for securely establishing communication in a multicast group of nodes of a network, in which the network includes publisher nodes, subscriber nodes, a multi-master directory that stores information about events in the network and that can authenticate the subscriber nodes and the publisher nodes, whereby each of the subscriber nodes and the publisher nodes receives a unique private key and that can determine events that the subscribers and the publishers may process, the method comprising the steps of registering the subscribers and the

publishers with an event server configured to determine whether the publishers are authorized to produce certain events corresponding to the event types and whether the subscribers are authorized to receive the certain events in response to the step of accessing; generating, with the event server, a group session key for establishing one of the multicast groups, the group session key being encrypted in a message that has a prescribed format (Col. 3 on 19-35); further comprising the steps of receiving a message from the subscribers in response to the subscribers determining whether the received message corresponds to a correct key version; updating the group session key; and selectively reregistering the subscribers at the event server (Col. 3 on 19-35); wherein the prescribed format of the message conforms with lightweight directory access protocol (LDAP) (Col. 3 on 19-35); wherein the prescribed format of the message comprises a protocol version number field, a message type field, and a message length field (Col. 3 on 19-35); wherein the step of authenticating comprises controlling access by the directory in conjunction with utilizing an external authentication service that allows extending membership of the multicast groups to subscribers with no corresponding objects in the directory (Col. 3 on 19-35); wherein the external authentication service is supplied by a Kerberos server (Col. 3 on 19-35); wherein the event server manages the private keys of the subscribers and the publishers (Col. 3 on 19-35); wherein the step of updating comprises creating a new group session key modifying the objects based upon the new group session key by using a change password protocol; sending a new message that contains the new group session key to the subscribers; and notifying the subscribers to reregister (Col. 3 on 19-35).

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- 7. Dondeti does not, however, disclose a method as recited in Claim 1, above, wherein the step of registering comprises performing access control check of the subscribers by the event server (O'Toole, col. 11, $\ln 9 34$). O'Toole, however, does, as noted above. It would be obvious to one of ordinary skill in the art to combine the teachings of Dondeti and O'Toole to obtain greater security in the distribution of data over a network.
- 8. Claims 10 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dondeti et al (US 6,240,188B1) in view of O'Toole, jr. et al (US 6,279,112 B1).
- 9. Dondeti discloses a communication system for creating a plurality of secure multicast groups in a network that includes a plurality of principals configured for functioning as a subscriber and a publisher, each of the principals having a private key, a multi-master directory comprising a directory server for communicating with one or more of the principals to authenticate each of the principals and to provide access control, the multi-master directory controlling access on a per object and per attribute basis, the communication system comprising an event server coupled to the plurality of principals for registering the plurality of principals and for determining whether the principals are authorized to produce certain events when the principals are functioning as publishers and whether the principals are authorized to receive the certain events when the principals are functioning as subscribers, and means in the event server for creating a group session key for establishing one of the multicast groups, by distributing the group session key in an encrypted message to the subscribers, the encrypted message encapsulating the group session key according to a prescribed format; means

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in the event server for updating the group session key by utilizing a change password protocol to modify an object in the directory; means in the event server for notifying the subscribers to reregister in response to the updating of the group session key (Col. 3 on 19-35); wherein the directory server is collocated with the event server, the directory server and the event server participating in a common one of the multicast groups (Col. 3 on 19-35); wherein the prescribed format of the message conforms with lightweight directory access protocol (LDAP) (Col. 3 on 19-35); wherein the directory authenticates by controlling access in conjunction with utilizing an external authentication service that allows extending membership of the multicast groups to subscribers with no corresponding objects in the directory (Col. 3 on 19-35); wherein the external authentication service is supplied by a Kerberos server (Col. 3 on 19-35); wherein the prescribed format of the message comprises a protocol version number field, a message type field, and a message length field (Col. 3 on 19-35); wherein the event server manages the private keys (Col. 3 on 19-35); wherein the event server updates the group session key by performing the steps of creating a new group session key; modifying the objects based upon the new group session key by using a change password protocol; sending a new message that contains the new group session key to the subscribers; and notifying the subscribers to reregister (Col. 3 on 19-35). 10. Dondeti does not, however, disclose a system as recited in Claim 10, above,

10. Dondeti does not, however, disclose a system as recited in Claim 10, above, wherein the event server performs access control check of the subscribers during registration of the subscribers (O'Toole, col. 11, $\ln 9 - 34$). O'Toole, however, does, as noted above. It would be obvious to one of ordinary skill in the art to combine the

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teachings of Dondeti and O'Toole to obtain greater security in the distribution of data over a network.

- 11. Claims 19 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dondeti et al (US 6,240,188B1) in view of O'Toole, jr. et al (US 6,279,112 B1).
- 12. Dondeti discloses a computer system for establishing multiple secure multicast groups, the computer system comprising a communication interface for communicating with a plurality of nodes and for interfacing a multi-master directory to authenticate the computer system and the plurality of nodes, the multi-master directory having access controls on a per object and per attribute basis, wherein the nodes access the directory to determine events that the nodes may process, a bus coupled to the communication interface for transferring data; one or more processors coupled to the bus for selectively generating a group session key and private keys corresponding to the plurality of nodes, the group session key being updated by utilizing a change password protocol to modify an object corresponding to the events in the directory; and a memory coupled to the one or more processors via the bus, the memory including one or more sequences of instructions which when executed by the one or more processors cause the one or more processors to perform the steps of registering the plurality of nodes, determining whether the nodes are authorized to produce and authorized to receive certain events corresponding to objects of the directory, distributing the group session key to the nodes via a message, the message encapsulating the group session key according to a prescribed format, and selectively reregistering the nodes in response to updating the group session key (Col. 3 on 19-35); wherein the directory server is collocated with the

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event server, the directory server and the event server participating in a common one of the multicast groups (Col. 3 on 19-35); wherein the prescribed format of the message conforms with light weight directory access protocol (LDAP) (Col. 3 on 19-35); wherein the directory authenticates by using authentication services of the directory in conjunction with a Kerberos service that allows extending membership to the multicast groups to nodes with no objects in the directory (Col. 3 on 19-35); wherein the event server manages private keys of the plurality of nodes (Col. 3 on 19-35); wherein the event server updates the group session key by performing the steps of creating a new group session key; modifying the objects based upon the new group session key by using a change password protocol; sending a new message that contains the new group session key to the subscribers; and notifying the subscribers to reregister (Col. 3 on 19-35).

- 13. Dondeti does not, however, disclose a system as recited in Claim 19, above, wherein the computer system performs access control check of the nodes during registration (O'Toole, col. 11, $\ln 9 34$). O'Toole, however, does, as noted above. It would be obvious to one of ordinary skill in the art to combine the teachings of Dondeti and O'Toole to obtain greater security in the distribution of data over a network.
- 14. Claims 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dondeti et al (US 6,240,188B1) in view of O'Toole, jr. et al (US 6,279,112 B1).
- 15. Dondeti discloses a computer-readable medium carrying one or more sequences of instructions for securely establishing communication in a multicast group of nodes of a network, in which the network includes publisher nodes, subscriber nodes, a multi-

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master directory that stores information about events in the network and that can authenticate the subscriber nodes and the publisher nodes, whereby each of the subscriber nodes and the publisher nodes receives a unique private key and that can determine events that the subscribers and the publishers may process, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of registering the subscribers and the publishers with an event server, the event server determining whether the publishers are authorized to produce certain events corresponding to the event types and whether the subscribers are authorized to receive the certain events in response to the step of accessing; generating a group session key for establishing one of the multicast groups, the group session key being encrypted in a message that has a format (Col. 3 on 19-35); further comprising the steps of receiving a prescribed message from the subscribers in response to the subscribers determining whether the received message corresponds to a correct key version; updating the group session key; and selectively reregistering the subscribers at the event server (Col. 3 on 19-35); wherein the step of (Col. 3 on 19-35); authenticating comprises controlling access by the directory in conjunction with (Col. 3 on 19-35); utilizing an external authentication service that allows extending membership of the multicast groups to subscribers with no corresponding objects in the directory (Col. 3 on 19-35); wherein the step of updating comprises creating a new group session key; modifying the objects based upon the new group session key by using a change password protocol; sending a new message that

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contains the new group session key to the subscribers; and notifying the subscribers to reregister (Col. 3 on 19-35).

16. Dondeti does not, however, disclose a medium as recited under claim 26, above, wherein the step of registering comprises performing access control check of the subscribers by the event server (O'Toole, col. 11, ln 9 – 34). O'Toole, however, does, as noted above. It would be obvious to one of ordinary skill in the art to combine the teachings of Dondeti and O'Toole to obtain greater security in the distribution of data over a network.

Conclusion

- 17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 18. Kocher et al (US 6,289,455B1) discloses a method and apparatus for preventing piracy of digital content.
- 19. Aronberg et al (US 6,117,188A) discloses a system and method using token processing to control software distribution and desktop management in a computer network environment.
- **20. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 21. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cristina O Sherr whose telephone number is 703-305-0625. The examiner can normally be reached on Monday through Friday 8:30 to 5:00.
- 23. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 703-305-9768. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.
- 24. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

November 3, 2002

JAMES P. TRAMMELL SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600